

iModCon RS232

Documentation version 0.9

This document applies to iModCon RS232 V1R1.

Introduction

The iModCon RS232 is a peripheral board, which can be connected to the iMod UART connector of Keith & Koep baseboards (i.e. i-PAN T7, i-PAN T10, i-PAN M7).

It converts the 3V3 UART signals of the iMod UART interface to RS232.

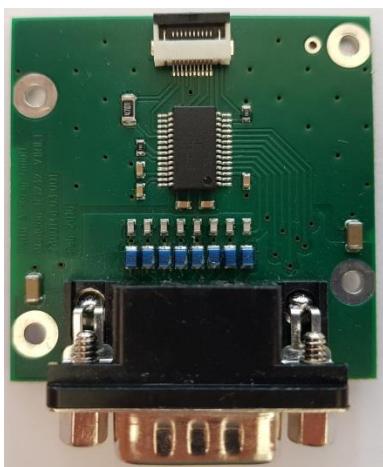


Figure: Top of iModCon RS232.

2 Electrical Pin-Information

PI: Power Input
 PO: Power Output

DI: Digital Input
 DO: Digital Output
 DIO: Digital Input/Output



J2: DSUB9 Connector

PIN	Name	Type	Description
1	DCD	DI	data carrier detect
2	RXD	DI	receive input
3	TXD	DO	transmit output
4	DTR	DO	data terminal ready
5	GND	P	
6	DSR	DI	data set ready
7	RTS	DO	request to send
8	CTS	DI	clear to send
9	RI	DI	ring indicator

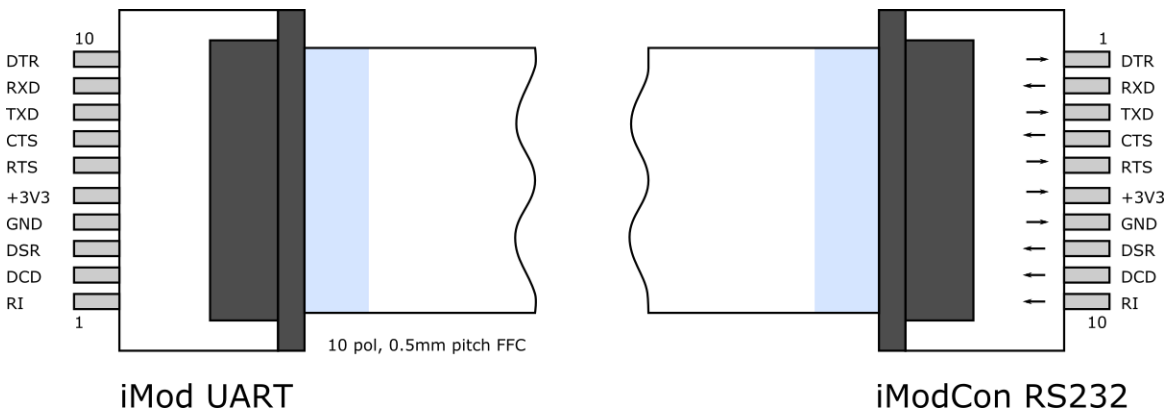


Figure 2-1: iMod UART Standard (left); Connector pinning of iModCon RS232 (right)

J1: iMod Connector

PIN	Name	Type	I/O-Voltage	Description
1	DTR	DI	+3.3V	data terminal ready input
2	RXD	DO	+3V3	receive output
3	TXD	DI	+3V3	transmit input
4	CTS	DO	+3V3	clear to send output
5	RTS	DI	+3V3	request to send input
6	+3V3	PI		power-supply
7	GND	PI		power-supply
8	DSR	DO	+3V3	data set ready output
9	DCD	DO	+3V3	data carrier detect output
10	RI	DO	+3V3	ring indicator output

Connector: 687110149022 by Wuerth

3 Specifications

3.1 Absolute Maximum Ratings & Operating Conditions

Please view the transceiver datasheet for electrical specification (SIPEX SP3243ECA).

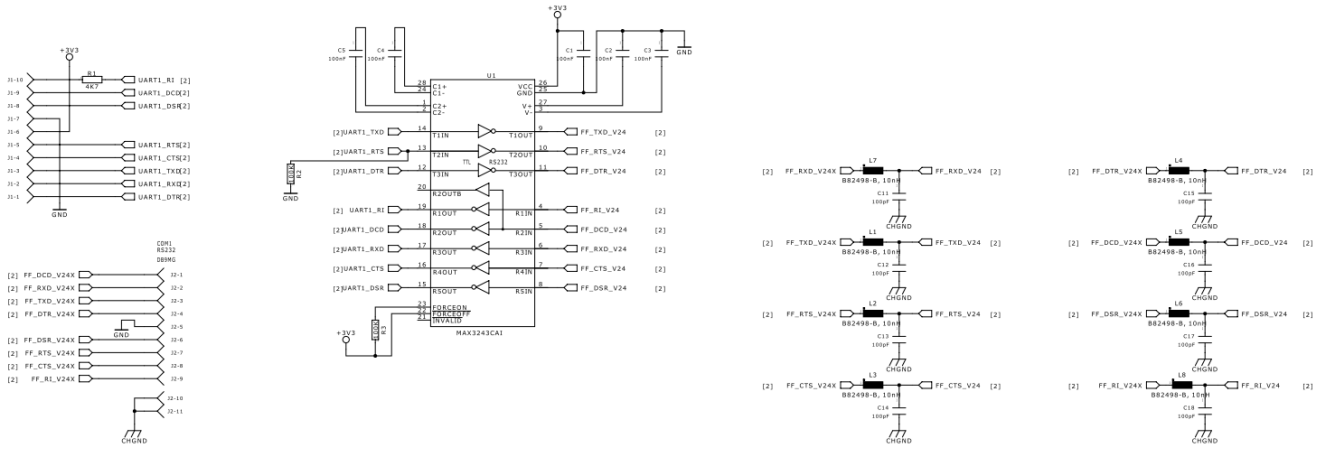


Figure 3-1: Schematic of iModCon RS232.

3.2 Mechanical Specification

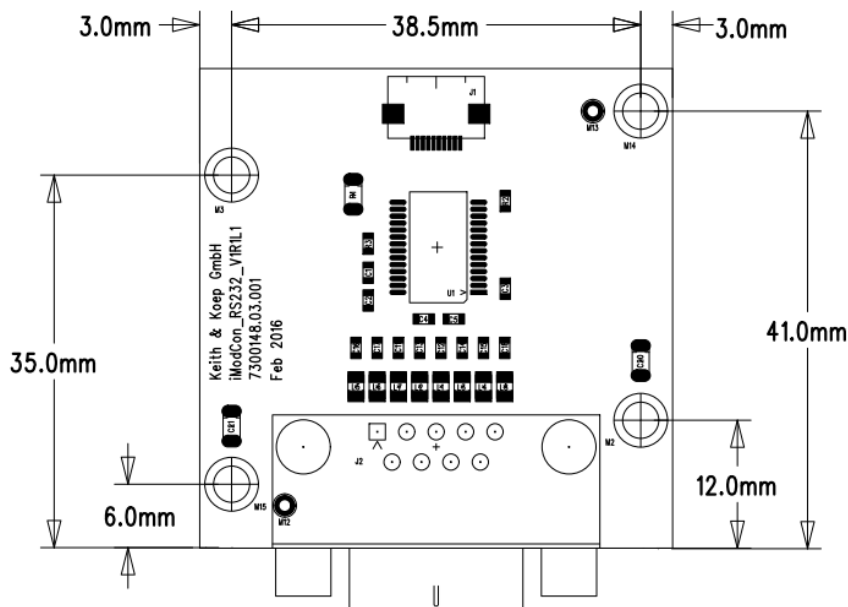


Figure 3-2: Top-View on iModCon RS232.

4 Ordercodes for iModCon RS232

41 900.RS232.001: iModCon RS232 incl. 125mm FFC cable

6 Document History

Rev.	Date	Author	Changes
0.9	18.04.2018	SH	Initial Version.